

RAW SEQUENCE LISTING DATE: 05/30/2000
 PATENT APPLICATION: US/08/908,867B TIME: 18:43:47

Input Set : A:\Pto.amc
 Output Set: N:\CRF3\05262000\H908867B.raw

```

4 (1) GENERAL INFORMATION:
7   (i) APPLICANT: YOUNG, ANDREW A.
8       GEDULIN, BRONISLAVA
9       BEELEY, NIGEL ROBERT ARNOLD
10      PRICKETT, KATHRYN S.
13   (ii) TITLE OF INVENTION: METHODS FOR REGULATING
14       GASTROINTESTINAL MOTILITY
17   (iii) NUMBER OF SEQUENCES: 39
20   (iv) CORRESPONDENCE ADDRESS:
22       (A) ADDRESSEE: LYON & LYON
23       (B) STREET: 633 WEST FIFTH STREET
24       (C) CITY: LOS ANGELES
25       (D) STATE: CALIFORNIA
26       (E) COUNTRY: USA
27       (F) ZIP: 90017
30   (v) COMPUTER READABLE FORM:
32       (A) MEDIUM TYPE: Floppy disk
33       (B) COMPUTER: IBM PC compatible
34       (C) OPERATING SYSTEM: PC-DOS/MS-DOS
35       (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
C--> 38   (vi) CURRENT APPLICATION DATA:
C--> 40       (A) APPLICATION NUMBER: US/08/908,867B
C--> 41       (B) FILING DATE: 08-Aug-1997
49       (C) CLASSIFICATION: Pending
45   (vii) PRIOR APPLICATION DATA:
47       (A) APPLICATION NUMBER: 08/694,954
48       (B) FILING DATE: 08-AUGUST-1996
54   (viii) ATTORNEY/AGENT INFORMATION:
56       (A) NAME: BERKMAN, CHARLES S.
57       (B) REGISTRATION NUMBER: 38,077
58       (C) REFERENCE/DOCKET NUMBER: 227/166
61   (ix) TELECOMMUNICATION INFORMATION:
63       (A) TELEPHONE: 619/552-2200
64       (B) TELEFAX: 213/955-0440
65       (C) TELEX: 67-3510
69 (2) INFORMATION FOR SEQ ID NO: 1:
71   (i) SEQUENCE CHARACTERISTICS:
73       (A) LENGTH: 39 amino acids
74       (B) TYPE: amino acid
75       (C) STRANDEDNESS: single
76       (D) TOPOLOGY: linear
78   (ii) MOLECULE TYPE: peptide
80   (ix) FEATURE:
82       (B) LOCATION: 39
83       (D) OTHER INFORMATION: amidated Ser (Serineamide)
85   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
87 His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

```

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```

88 1           5           10           15
90 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
91           20           25           30
93 Ser Gly Ala Pro Pro Pro Ser
94           35
98 (2) INFORMATION FOR SEQ ID NO: 2:
100 (i) SEQUENCE CHARACTERISTICS:
102 (A) LENGTH: 39 amino acids
103 (B) TYPE: amino acid
104 (C) STRANDEDNESS: single
105 (D) TOPOLOGY: linear
107 (ii) MOLECULE TYPE: peptide
109 (ix) FEATURE:
111 (B) LOCATION: 39
112 (D) OTHER INFORMATION: amidated Ser (Serineamide)
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
116 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
117 1           5           10           15
119 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
120           20           25           30
121 Ser Gly Ala Pro Pro Pro Ser
122           35
126 (2) INFORMATION FOR SEQ ID NO: 3:
128 (i) SEQUENCE CHARACTERISTICS:
130 (A) LENGTH: 30 amino acids
131 (B) TYPE: amino acid
132 (C) STRANDEDNESS: single
133 (D) TOPOLOGY: linear
135 (ii) MOLECULE TYPE: peptide
137 (ix) FEATURE:
139 (B) LOCATION: 30
140 (D) OTHER INFORMATION: amidated Arg (Arginineamide)
142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
144 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
145 1           5           10           15
147 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
148           20           25           30
152 (2) INFORMATION FOR SEQ ID NO: 4:
154 (i) SEQUENCE CHARACTERISTICS:
156 (A) LENGTH: 31 amino acids
157 (B) TYPE: amino acid
158 (C) STRANDEDNESS: single
159 (D) TOPOLOGY: linear
161 (ii) MOLECULE TYPE: peptide
163 (ix) FEATURE:
165 (B) LOCATION: 31
166 (D) OTHER INFORMATION: amidated Ser (Serineamide)
168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
170 Asp Leu Ser Lys Gly Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu

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171 1           5           10           15
173 Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Pro Pro Ser
174           20           25           30
178 (2) INFORMATION FOR SEQ ID NO: 5:
180   (i) SEQUENCE CHARACTERISTICS:
182       (A) LENGTH: 39 amino acids
183       (B) TYPE: amino acid
184       (C) STRANDEDNESS: single
185       (D) TOPOLOGY: linear
187   (ii) MOLECULE TYPE: peptide
189   (ix) FEATURE:
191       (B) LOCATION: 39
192       (D) OTHER INFORMATION: amidated Ser (Serineamide)
194   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
196 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
197 1           5           10           15
199 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
200           20           25           30
202 Ser Gly Ala Pro Pro Pro Ser
203           35
207 (2) INFORMATION FOR SEQ ID NO: 6:
213   (i) SEQUENCE CHARACTERISTICS:
215       (A) LENGTH: 39 amino acids
216       (B) TYPE: amino acid
217       (C) STRANDEDNESS: single
218       (D) TOPOLOGY: linear
220   (ii) MOLECULE TYPE: peptide
222   (ix) FEATURE:
224       (B) LOCATION: 39
225       (D) OTHER INFORMATION: amidated Ser (Serineamide)
227   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
229 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
230 1           5           10           15
232 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
233           20           25           30
235 Ser Gly Ala Pro Pro Pro Ser
236           35
240 (2) INFORMATION FOR SEQ ID NO: 7:
242   (i) SEQUENCE CHARACTERISTICS:
244       (A) LENGTH: 39 amino acids
245       (B) TYPE: amino acid
246       (C) STRANDEDNESS: single
247       (D) TOPOLOGY: linear
254   (ii) MOLECULE TYPE: peptide
249   (ix) FEATURE:
251       (B) LOCATION: 39
252       (D) OTHER INFORMATION: amidated Ser (Serineamide)
256   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
258 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

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```

259 1           5           10           15
261 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
262           20           25           30
264 Ser Gly Ala Pro Pro Pro Ser
265           35
267 (2) INFORMATION FOR SEQ ID NO: 8:
269 (i) SEQUENCE CHARACTERISTICS:
271 (A) LENGTH: 39 amino acids
272 (B) TYPE: amino acid
273 (C) STRANDEDNESS: single
274 (D) TOPOLOGY: linear
276 (ii) MOLECULE TYPE: peptide
278 (ix) FEATURE:
280 (B) LOCATION: 39
281 (D) OTHER INFORMATION: amidated Ser (Serineamide)
283 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
285 Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
286 1           5           10           15
288 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
289           20           25           30
291 Ser Gly Ala Pro Pro Pro Ser
292           35
296 (2) INFORMATION FOR SEQ ID NO: 9:
298 (i) SEQUENCE CHARACTERISTICS:
300 (A) LENGTH: 39 amino acids
301 (B) TYPE: amino acid
302 (C) STRANDEDNESS: single
303 (D) TOPOLOGY: linear
305 (ii) MOLECULE TYPE: peptide
307 (ix) FEATURE:
309 (B) LOCATION: 39
310 (D) OTHER INFORMATION: amidated Tyr (Tyrosinamide)
312 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
314 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
315 1           5           10           15
317 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
318           20           25           30
320 Ser Gly Ala Pro Pro Pro Tyr
321           35
325 (2) INFORMATION FOR SEQ ID NO: 10:
327 (i) SEQUENCE CHARACTERISTICS:
329 (A) LENGTH: 39 amino acids
330 (B) TYPE: amino acid
331 (C) STRANDEDNESS: single
332 (D) TOPOLOGY: linear
334 (ii) MOLECULE TYPE: peptide
336 (ix) FEATURE:
338 (B) LOCATION: 39
339 (D) OTHER INFORMATION: amidated Ser (Serineamide)

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RAW SEQUENCE LISTING DATE: 05/30/2000
 PATENT APPLICATION: US/08/908,867B TIME: 18:43:47

Input Set : A:\Pto.amc
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341      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
343 His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
344 1      5      10      15
346 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
347      20      25      30
349 Ser Gly Ala Pro Pro Pro Ser
350      35
354 (2) INFORMATION FOR SEQ ID NO: 11:
356      (i) SEQUENCE CHARACTERISTICS:
358          (A) LENGTH: 39 amino acids
359          (B) TYPE: amino acid
360          (C) STRANDEDNESS: single
361          (D) TOPOLOGY: linear
363      (ii) MOLECULE TYPE: peptide
365      (ix) FEATURE:
370          (B) LOCATION: 39
371          (D) OTHER INFORMATION: amidated Ser (Serineamide)
373      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
375 His Gly Glu Gly Thr Ala Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
376 1      5      10      15
378 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
379      20      25      30
381 Ser Gly Ala Pro Pro Pro Ser
382      35
386 (2) INFORMATION FOR SEQ ID NO: 12:
388      (i) SEQUENCE CHARACTERISTICS:
390          (A) LENGTH: 39 amino acids
391          (B) TYPE: amino acid
392          (C) STRANDEDNESS: single
393          (D) TOPOLOGY: linear
395      (ii) MOLECULE TYPE: peptide
397      (ix) FEATURE:
399          (B) LOCATION: 39
400          (D) OTHER INFORMATION: amidated Ser (Serineamide)
402      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
404 His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
405 1      5      10      15
407 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
408      20      25      30
410 Ser Gly Ala Pro Pro Pro Ser
411      35
415 (2) INFORMATION FOR SEQ ID NO: 13:
417      (i) SEQUENCE CHARACTERISTICS:
419          (A) LENGTH: 39 amino acids
420          (B) TYPE: amino acid
421          (C) STRANDEDNESS: single
422          (D) TOPOLOGY: linear
424      (ii) MOLECULE TYPE: peptide
426      (ix) FEATURE:

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Serial Number: 08/908 867B

ENTERED

1642
P#20

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 35 - aligned a.a. numbering

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*Examiner: ~~The above~~ corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

DATE: 05/30/2000

PATENT APPLICATION: US/08/908,867B

TIME: 18:41:48

Input Set : A:\227166.txt

Output Set: N:\CRF3\05262000\H908867B.raw

4 (1) GENERAL INFORMATION:
 7 (i) APPLICANT: YOUNG, ANDREW A.
 8 GEDULIN, BRONISLAVA
 9 BEELEY, NIGEL ROBERT ARNOLD
 10 PRICKETT, KATHRYN S.
 13 (ii) TITLE OF INVENTION: METHODS FOR REGULATING
 14 GASTROINTESTINAL MOTILITY
 17 (iii) NUMBER OF SEQUENCES: 39
 20 (iv) CORRESPONDENCE ADDRESS:
 22 (A) ADDRESSEE: LYON & LYON
 23 (B) STREET: 633 WEST FIFTH STREET
 24 (C) CITY: LOS ANGELES
 25 (D) STATE: CALIFORNIA
 26 (E) COUNTRY: USA
 27 (F) ZIP: 90017
 30 (v) COMPUTER READABLE FORM:
 32 (A) MEDIUM TYPE: Floppy disk
 33 (B) COMPUTER: IBM PC compatible
 34 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 35 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 C--> 38 (vi) CURRENT APPLICATION DATA:
 C--> 40 (A) APPLICATION NUMBER: US/08/908,867B
 C--> 41 (B) FILING DATE: 08-Aug-1997
 49 (C) CLASSIFICATION: Pending
 45 (vii) PRIOR APPLICATION DATA:
 47 (A) APPLICATION NUMBER: 08/694,954
 48 (B) FILING DATE: 08-AUGUST-1996
 54 (viii) ATTORNEY/AGENT INFORMATION:
 56 (A) NAME: BERKMAN, CHARLES S.
 57 (B) REGISTRATION NUMBER: 38,077
 58 (C) REFERENCE/DOCKET NUMBER: 227/166
 61 (ix) TELECOMMUNICATION INFORMATION:
 63 (A) TELEPHONE: 619/552-2200
 64 (B) TELEFAX: 213/955-0440
 65 (C) TELEX: 67-3510

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

1106 (2) INFORMATION FOR SEQ ID NO: 35
 1108 (i) SEQUENCE CHARACTERISTICS:
 1110 (A) LENGTH: 39 amino acids
 1111 (B) TYPE: amino acid
 1112 (C) STRANDEDNESS: single
 1113 (D) TOPOLOGY: linear
 1115 (ii) MOLECULE TYPE: peptide
 1117 (ix) FEATURE:

RAW SEQUENCE LISTING DATE: 05/30/2000
 PATENT APPLICATION: US/08/908,867B TIME: 18:41:48

Input Set : A:\227166.txt
 Output Set: N:\CRF3\05262000\H908867B.raw

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1122      (B) LOCATION: 39
1123      (D) OTHER INFORMATION: amidated Ser (Serineamide)
1125      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:
1127 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1128 1      5      10      15
1130 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Ala Ser
E--> 1131      20      25      30
1133 Ser Gly Ala Ala Ala Ala Ser
1134      35

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VERIFICATION SUMMARY

DATE: 05/30/2000

PATENT APPLICATION: US/08/908,867B

TIME: 18:41:49

Input Set : A:\227166.txt

Output Set: N:\CRF3\05262000\H908867B.raw

L:1131 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:35
L:1229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39

STATISTICS SUMMARY
PATENT APPLICATION: US/08/908,867B DATE: 05/30/2000
TIME: 18:41:49

Input Set : A:\227166.txt
Output Set: N:\CRF3\05262000\H908867B.raw

Application Serial Number: US/08/908,867
Alpha or Numeric: Alpha
Application Class:
Application File Date: 08-08-1997
Art Unit:
Software Application: PatentIn
Total Number of Sequences: 39
Number of Errors: 1
Number of Warnings: 6
Number of Corrections: 0

MESSAGE SUMMARY

332 E: 1 ((32) Invalid/Missing Amino Acid Numbering)
341 W: 6 ((46) "n" or "Xaa" used)